

Title (en)  
ION CONDUCTING MEMBRANES FOR SEPARATION OF MOLECULES

Title (de)  
IONENLEITENDE MEMBRANEN ZUR TRENNUNG VON MOLEKÜLEN

Title (fr)  
MEMBRANE CONDUCTRICE D'IONS POUR LA SEPARATION DE MOLECULES

Publication  
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Application  
**EP 06750517 A 20060418**

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Abstract (en)  
[origin: WO2006113674A2] Bi-continuous membranes are provided in which one phase conducts a first type of ions and a second phase conducts a second type of ions. In some embodiments, a molten phase forms one of the phases of the bi-continuous membrane and a solid phase forms one of the phases of the bi-continuous membrane. The materials comprising the membrane are effective in separation and absorption technologies and are fabricated into a structured membrane in accordance with this invention. For example, to separate carbon dioxide, alkali metal carbonates, e.g., lithium carbonate, and solid oxides, e.g., zirconia, are suitable materials for the preparation of these types of membranes and can form CO<sub>2</sub> selective and permeable layers.

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